PX745
PX745-L0
Driver LED
C.C. 3 x 350mA



User manual

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Manufacturer reserves the right to make modifications in order to improve device operation.

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# 1 Description

Driver LED C.C.  $3 \times 350$ mA with built-in DMX512 signal receiver is designed to control LEDs, it is allows for activating 3 channel (R, G, B) by using directly the DMX protocol. The device has been placed inside metal housing. A wide range of 12 - 48V DC power supply allows to control large amounts of LEDs supplied with 350mA current.

PX745 can be controlled by the DMX signal or it can work independently. In this operation mode, the user has access to a fully programmable scene and 18 default sequences for which can also change the reproduction speed and the smoothness of transition of particular steps.

Thanks to the interpolated resolution of the output control at the 16 bit level, the control of the parameters of individual channels is completely smooth. Moreover, the driver offers an effect control mode which allows for controlling the programs that are built into the device and, at the same time, changing such parameters as speed, brightness and fade settings using DMX512 signal sent from an external controller.

The driver offers a built-in control signal frequency tuning system ("flicker free" technology), which makes it useful in applications for the television industry. As LED's from the RGB series often differ in parameters, problem in receiving white color may occur (triggering 100% at all channels). This is why the PX745 has been equipped with a very useful feature called "white balance". With this feature, each set of LED's can be adjusted so that the control of individual colors by the module enables achieving white color at full activation. What is more, this feature allows for adjusting color temperature

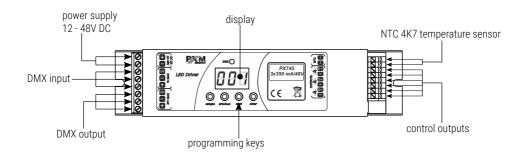
of white. PX745 has also been equipped with a function of temperature power output limit and connectors for connecting a temperature sensor.

# 2 Safety conditions

PX745 is a device powered with safe voltage 12 – 48V DC; however, during its installation and use the following rules must be strictly observed:

- 1. The device may only be connected to 12 48V DC with current-carrying capacity compatible with technical data.
- 2. All the conductors should be protected against mechanical and thermal damage.
- 3. In the event of damaging any conductor, it should be replaced with a conductor of the same technical data.
- 4. Connection of DMX signal can only be made with shielded conductor.
- 5. All repairs and connections of outputs or DMX signal can only be made with cut off power supply.
- 6. The PX745 should be strictly protected against contact with water and other liquids.
- 7. All sudden shocks, particularly dropping, should be avoided.
- 8. The device cannot be turned on in places with humidity exceeding 90%.
- 9. The device cannot be used in places with temperature lower than +2°C or higher than +40°C.
- 10. Clean with damp duster only.

# 3 Connectors and control elements



# 4 Designation of displayed messages

888	DMX address of a device – a basic item in the MENU
888	setting parameters for all channels simultaneously
888	setting parameters for each channel individually
888	DMX address setting
888	control method selection (RGB, Lightness / Color, etc.)
888	no DMX signal response method selection
888	Master / Slave mode settings
888	selection of the control curve
888	Lightness / Color control mode
888	RGB control mode
888	RGB Dimmer control mode
888	HSL control mode – Hue / Saturation / Lightness
888	effect control mode
888	dynamic white mode
888	all outputs at 100%
888	all outputs off
888	scene
888	program no. 17
888	maintaining the last value before the disappearance of the DMX
	signal
888	DMX address settings for first channel
888	Master mode on / off
888	number of channels being sent in the Master mode
888	white color balance setting

888	red balance
888	green balance
888	blue balance
888	white color balance on / off
888	program playback speed
888	level of steps change smoothness in the program
888	red color during scene programming
888	green color during scene programming
888	blue color during scene programming
888	basic frequency of brightness control
888	screen blanking
888	memory error message
888	restore default device settings menu
888	restore default device settings menu
888	function to limit power
888	value of the limit activation temperature
888	value of the maximum limit temperature
888	current temperature
888	the highest temperature recorded by the sensor
888	the lowest temperature recorded by the sensor
888	temperature limit is switched off and it is not possible to read the following temperatures: maximum, minimum, and current or when a mode which does not use all channels is set, and unused channels will have the address of the channel

# 5 Device programming

After you switch on the module, its display shows the program version for a brief moment. To access the main menu, press "enter", and the display will show Adr. Press "previous" or "next" to select the appropriate menu and press "enter" to confirm your selection.

#### 5.1 Button features

**escape** – goes back to the previous MENU level or discards changes made

previous – scrolls to the previous feature on the same MENU levelor decreases the parameter's value

next – scrolls to the next feature on the same MENU level or increases
 the parameter's value

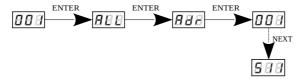
enter – enters the next MENU level and confirms changes made

## 5.2 Group DMX address settings

The menu of the PX745 driver allows for setting the DMX address within a range between 1 and 506 – 511 depending on work mode of device. For example in RGB mode it occupies three consecutive DMX addresses. If start address is set to 510, the last channel is occupied by address 512.

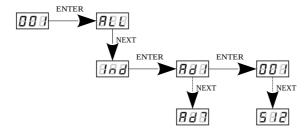
#### To set the DMX address:

- 1. Set the "Adr" function.
- 2. Use the "next" or "previous" buttons to set the selected DMX address.
- 3. Push the "enter" button to confirm choose.



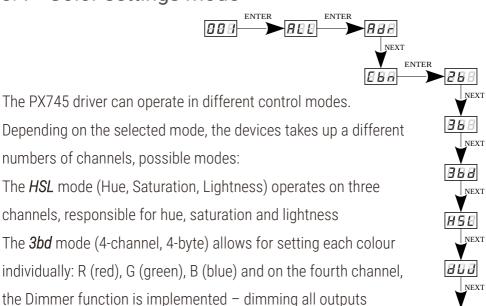
## 5.3 Individual DMX address settings

The PX745 module has an option that allows for changing individual settings. It enables assigning any DMX address to every output channel. The simplest example of implementation of this function is to control the lightness of one-color LEDs connected to all outputs. In such case, the same address must be assigned to all channels so that all outputs are controlled by one slider on the control panel.



## 5.4 Color settings mode

separately



888

The **2b** mode (2-channel, 2-byte) consists in selecting lightness and one of the 256 colors define by the manufacturer

The 3b mode (3-channel, 3-byte) each color (R, G, B) can be set

The *dW* – dynamic white – control of channel: cold white + warm white, by means of two DMX channels. The first DMX channel is responsible for color temperature and the other channel – for lightness.

The *EFF* mode – effects control – it is available on 8 DMX channels and allows to choose the right effect and parameters (description of the *EFF* mode is on the next page)

#### <u>Description guide of *EFF* mode settings (table is on the next page):</u>

Channel 1 - red color

Channel 2 - green color

Channel 3 - blue color

**Channel 4** – operating mode selection

**Channel 5** – speed settings (higher value – quicker changes)

**Channel 6** – fade settings (higher value – smoother transition)

**Channel 7** – lightness settings (higher value – stronger glow)

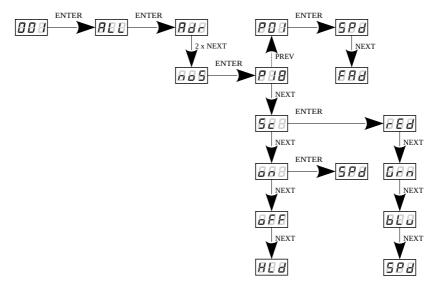
sign "x" - possibility to control a given parameter of a selected mode

sign "-" – no possibility to control a given parameter of a selected mode

CHANNEL 1 RED	CHANNEL 2 GREEN	CHANNEL 3 BLUE	CHANNEL 5 MODE	CHANNEL 6 SPEED	CHANNEL 7 FADE	CHANNEL 8 BRIGHTNESS
-	-	-	<0-7> Program 1	Х	Х	X
-	-	-	<8-15> Program 2	Х	Х	Х
-	-	-	<16-23> Program 3	Х	Х	Х
-	-	-	<24-31> Program 4	Х	Х	Х
-	-	-	<32-39> Program 5	Х	Х	Х
-	-	-	<40-47> Program 6	Х	Х	Х
-	-	-	<48-55> Program 7	Х	Х	X
-	-	-	<56-63> Program 8	Х	Х	Х
-	-	-	<64-71> Program 9	Х	Х	Х
-	-	-	<72-79> Program 10	Х	Х	Х
-	-	-	<80-87> Program 11	Х	Х	Х
-	-	-	<88-95> Program 12	X	Х	Х
-	-	-	<96-103> Program 13	Х	Х	Х
-	-	-	<104-111> Program 14	Х	Х	Х
-	-	-	<112-119> Program 15	х	Х	Х
-	-	-	<120-127> Program 16	Х	Х	Х
-	-	-	<128-135> Program 17	X	Х	Х
-	-	-	<136-143> Program 18	X	Х	Х
-	-	-	<144-151> OFF	-	-	-
Х	Х	Х	<152-169> Strobo 10%	Х	-	Х
Х	Х	Х	<170-199> Strobo 20%	Х	-	X
Х	Х	Х	<200-229> Strobo 50%	Х	-	X
Х	Х	Х	<230-255> RGBD	-	-	X

## 5.5 No DMX signal response

This function is used both to protect the installation against the DMX signal loss and to obtain control over LEDs without connecting an external controller. Once it is activated, if there is no DMX signal the module will realize a desired function independently. Reconnecting the DMX signal will automatically break the realized function and the module will once again follow the commands transmitted via the DMX line.



P01 - P18 – choosing a ready program provided in the device software. For each program it is possible to set the speed (SPd) of the effects reproduction on range 0,1 - 99,9s and smoothness of change of steps (FAd) in range 0 - 100, where 0 is a step transition, and 100 completely smooth.

Sc –self-programmed scene in which it possible to set values for RGB colors (rEd, Grn, bLu) in range 0 – 255 for each color separately. Additionally can set the scene entry time (SPd) after decay DMX signal in range 0,1 – 99,9s. on – activation of all outputs at 100% with the possibility of setting the switch-on time (SPd) all outputs after decay DMX signal

oFF - disabling all outputs after DMX signal loss

*HLd* – maintaining the last value before the disappearance of the DMX signal

# 5.6 Description of programs

The following tables show the values for each output channel (R, G, B) in programs from 1 up 18 (P01 - P18). The value 255 corresponds to the maximum lightness level on a given channel, 127 - 50% of power level, 0 - full channel blanking.

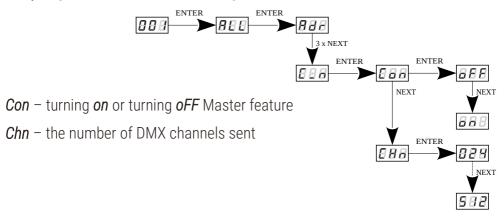
		P01	P02	P03	P04	P05	P06	P07	P08	P09
	R	255	0	0	0	255	255	0	255	0
Step 1	G	0	0	0	0	0	0	255	0	255
	В	0	255	0	0	0	0	255	0	0
	R	0	0	255	0	255	255	255	0	0
Step 2	G	255	255	0	0	255	0	0	255	0
	В	0	0	0	255	0	255	255	0	255
	R	0	255	0	0	0	0	255		
Step 3	G	0	0	0	0	255	0	255		
	В	255	0	0	0	0	255	0		
	R			0	0	0	0			
Step 4	G			255	255	255	255			
	В			0	0	255	255			
	R			0	0	0	0			
Step 5	G			0	0	0	255			
	В			0	0	255	0			
	R			0	255	255	255			
Step 6	G			0	0	0	255			
	В			255	0	255	0			

		P10	P11	P12	P13	P14	P15	P16	P17	P18
	R	255	0	0	0	255	0	0	0	0
Step 1	G	0	0	0	0	0	255	0	127	0
	В	0	0	0	0	0	0	255	255	0
	R	0	255	0	0	255	127	127	127	255
Step 2	G	0	0	255	0	127	255	0	255	255
	В	255	0	0	255	0	0	255	127	255
	R					255	0	0	255	
Step 3	G					0	255	0	127	
	В					0	0	255	0	
	R					255	0	0	127	
Step 4	G					0	255	127	0	
	В					127	127	255	127	

#### 5.7 Master / Slave function

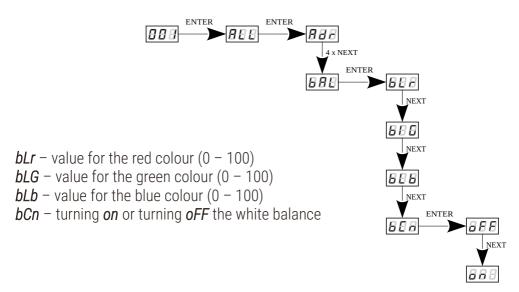
The PX745 module has a built-in DMX-512 receiver and can be controlled from any desktop or controller running in this standard. Moreover, it is equipped with a programmable function of response to no DMX signal (*noS*). With 18 built-in default programs, it is possible to obtain interesting effects without an external controller. However, in larger installations, several PX745 drivers implementing the same program cannot provide a full playback synchronization. Therefore, PX745 has a Master feature. When it is activated, the module changes from a DMX receiver into a transmitter of this signal and sends programs to the other modules (which are set as Slave). If the Master function is active, this is indicated by a fast flashing of the DMX signaling diode.

With this solution, it is possible to make a precise synchronization even in very large installations without using an external controller.



#### 5.8 White balance

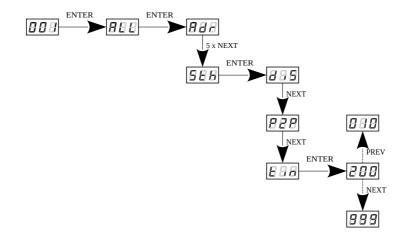
Sometimes, there can be problems with getting white color on the RGB series LEDs. This may be a result of using diodes with different technical parameters. For this reason, the PX745 module is equipped with a white balance function. This option allows for choosing a correct color temperature for full activation of all 3 outputs (white color).



#### 5.9 Smooth

The driver is equipped with a smooth option. Smooth feature allows for smooth changes in lightness and color. When it is set to On the transition between successive DMX values sent to the lamp (e.g. corresponding to changes in lightness) are smooth with no visible twitches, which prevents the common light "vibrations" effect. Two consecutive DMX values sent to the lamp are smoothed linearly between the DMX signal packets for the selected **B28** option or the time interval set in the **B38** menu in range 10 – 999ms.

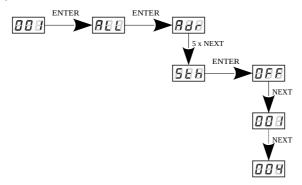
The smooth function may slightly slow down the lamp's response rate to changes in the DMX signal; therefore, it is possible to disable this option. This can be done by checking the <code>BSS</code> parameter and confirming the selection by pressing "enter".



**NOTE!** In the *L0* version, the smoothing settings are presented below. Information whether the device is the *L0* version is displayed during device start-up.

By default, the *Sth* option is enabled at level **004**. The options are:

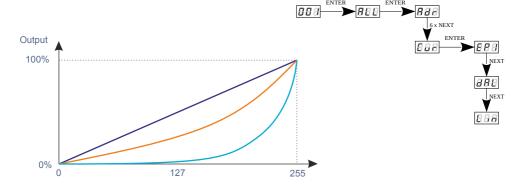
- Off smoothing disabled,
- 001 004 smoothing level adjustable from 1 to 4 (1 fast, 4 very smooth).



#### 5.10 Selection of control curve

The driver has implemented the option of choosing one of three output control curves:

- linear *Lin* the output values is linearly proportional to the control value,
- DALI **dAL**,
- exponential *EP1* with exponent 2.



#### **Curves**:

—— linear

exponential with exponent 2

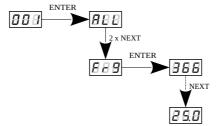
—— DALI

**NOTE!** Only in device version *L0* it is possible to select the control curve.

## 5.11 Light control frequency

The *Frq* function allows for setting the basic control frequency for the LEDs. This function is extremely useful in applications for the television industry. By applying the "*flicker free*" technology, it is possible to avoid the unpleasant flickering effect which is caused by improper signal synchronization that controls the LEDs. The user can choose from the available frequency range from 366Hz up to 25.0kHz which can be smoothly changed using the "*previous*" or "*next*" buttons and selecting a different value.

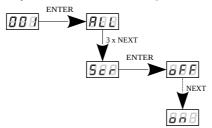
The frequency value in the upper range (e.g. 1.50 = 1.5kHz) helps to avoid the flickering effects that are visible in video cameras.



**NOTE!** In the *L0* version, the frequency setting is in the range of 488Hz – 25kHz. Information whether the device is the *L0* version is displayed during device start-up.

# 5.12 Screen saving (screen blanking)

The device is equipped with a feature that allows for turning off the backlight. This option is marked with the *SCr* sign. With this feature, the display is turned off after about 60s (if the keys of the device are not pressed). Of course, the device continues its operation without interfering with other parameters. Press any key to restore the backlight.



# 5.13 Temperatures limits and sensor failure

PX745 has been equipped with a function that limits the output power depending on the temperature value read using the external sensor mounted in the lamp. This allows for programming a temperature value which, if reached, limits the power or disables the lamp supplied by the driver. The product is designed to work only with the **NTC 4K7** type thermistor.

#### The meaning of the statement:

tMP – power limitationmanagement depending ontemperature read on the external sensor

**LiM** – powering **On** and **OFF** of the power limitation function **Lo** – limit activation temperature value can be set between 30°C and 60°C

*Hi* – maximum limit temperature value set in the range from 70°C up to 90°C

*t°C* – current temperature

*tSH* – the highest temperature recorded by the sensor

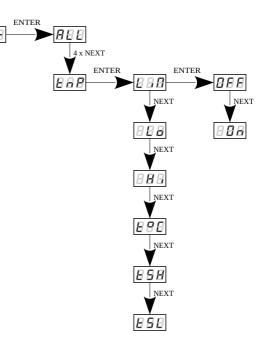
tSL - the lowest temperature recorded by the sensor

#### Error messages:

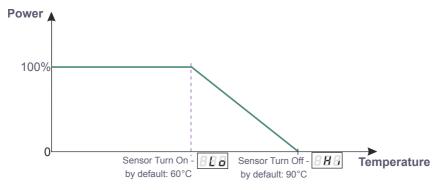
*Er0* – no thermistor or thermistor open

*ErC* – shorted thermistor

---- LiM temperature limit was not turned on



The course of the power limitation between *Lo* and *Hi* values is linear as shown in the graph below:



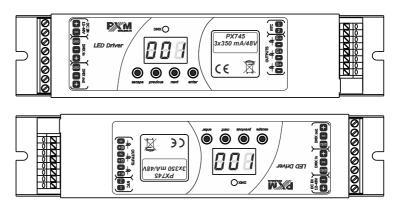
If this function is activated and the temperature sensor is incorrectly connected or there is no sensor, the driver displays a relevant message – *Er0* at the current temperature location, and instead of the first DMX address, i.e. at the very beginning of the menu. To disable the message, connect an appropriate sensor or disable the temperature limit.

## 5.14 Display function

As the driver should be installed (As far as possible) in a small distance from the controlled LEDs, the lack of space may force the necessity of mounting the device upside-down. In such case the displayed messages become illegible, that does not have the influence on device operation, but makes the programming much more difficult.

That is why the PX745 driver has a display flip feature available. It turns the screen 180°. The keys order is reversed as well.

To activate this both middle buttons ("previous" and "next") of the driver upside-down have to specificate in the same time for about 3s. To deactivate function the procedure is the same.



The figure shows how flip function works.

**NOTE!** The keys on the reverse of the display are set in the same way as the normal position, keys are reversed.

# 5.15 Default settings and device errors

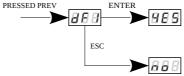
If you have any difficulty accessing the device menu, e.g. it is not possible to enter a particular menu level or it is necessary to restore the device to its default settings, follow the instructions below.

In the first case, when a particular menu level cannot be accessed or menu items are displayed incorrectly, this may indicate that a saving-in-memory error has occurred. In such a case, try to restore the device to its default settings before sending the PX745 to the service center. If, after restoring to its default settings, the device still does not operate correctly, please send it to our service center.

#### 5.15.1 Restore default settings

To restore the device to its default settings, press and hold the "previous" key while switching on the device. One of the messages that will be displayed will say dFI, which means successful restoring to default settings (the "previous" key has to be held down while powering on the device, until the dFI message is displayed).

If this message is accepted by pressing "*enter*", the default settings will be restored. The user can also exit this menu level without restoring the default

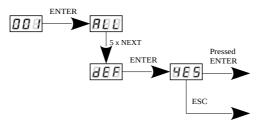


settings. In order to do this, press the "escape" key.

Please note that after restoring to default settings, all the operating parameters of the device will revert to the following ones:

- DMX address: 1
- **driver operating mode**: RGB (3b 3 byte)
- master mode: off
- number of sent DMX channels: 128
- white balance: off
- screensaver: off
- **control curve**: EP1 (version *L0*)
- no signal operating mode: scene (all channels controlled by 50%)
- **frequency**: 366Hz (488Hz version *L0*)
- **smooth function**: off (**001** version *L0*)

**NOTE!** In the device version *L0*, restoring the factory settings is available from the device menu. Information whether the device is the *L0* version is displayed during device start-up.



#### 5.15.2 Error message

The device is equipped with a built-in memory work control function.

If there are problems with the memory operation on the PX745 display, the *Err* message appears – memory error.

In this situation, select the "enter" key. The device will reload the default configuration and upload it to the memory. If after this operation, the Err message remains on the screen, the memory is permanently damaged and the unit must be sent to the service point.

# 6 Device update

The update is possible using the

PX313 USB / RS485 In device – details can be found in the manual for this module.

The device update was also presented in detail on our YouTube channel.



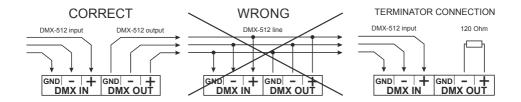


https://www.youtube.com/watch?v=ISIFGeXVR\_k

# 7 DMX signal connecting

PX745 have to be connected to DMX line in serial mode, with no branches on DMX control cable. That means that DMX line, from the signal source, must be connected to *DMX IN* pins of PX745 and later, directly from *DMX OUT* pins to the next device in DMX chain.

If the PX745 is the last DMX chain receiver there should be terminator (resistor 120 Ohm) mounted between "*DMX+*" and "*DMX-*" pins of *DMX OUT* section.



# 8 RDM – available parameters

The PX745 supports the DMX-RDM protocol. DMX protocol allows only of a one-way data transmission, while its extension the RDM protocol can transmit information in two directions. This makes possible to simultaneously send and receive information, and hence the possibility of monitoring activities of the compatible devices. Thanks to RDM some available settings of compatible devices may be programmed using this protocol.

#### List of RDM parameters supported by the PX745:

Parameter name	PiD	Description
SUPPORTED_PARAMETERS	0x0050	all supported parameters
PARAMETER_DESCRIPTION	0x0051	description of additional parameters
DEVICE_INFO	0x0060	information concerning the device
SOFTWARE_VERSION_LABEL	0x00C0	firmware version of the device
DMX_START_ADDRESS * / DMX_ADDRESS *	0x00F0	DMX starting address of the device; Range 1 – 512
IDENTIFY_DEVICE * / IDENTIFY *	0x1000	device identification; Two states are possible: identification is off (0x00 value) and identification is on (0x01 value).
STATUS_MESSAGES **	0x0030	information about device status
DEVICE_MODEL_ DESCRIPTION / DEV_MODEL_DESC	0x0080	device description, e.g. name

Parameter name	PiD	Description
MANUFACTURER_LABEL	0x0081	manufacturer description, e.g. name
DEVICE_LABEL *	0x0082	additional device description; It is possible to enter an additional device description using up to 32 ASCII characters.
FACTORY_DEFAULTS	0x0090	device default settings
DMX_PERSONALITY / PERSONALITY	0x00E0	DMX operational mode
DMX_PERSONALITY_ DESCRIPTION / PERSONALITY_ DESCRIPTION	0x00E1	description of individual operational modes
DEVICE_HOURS **	0x0400	operating time counted in hours
TEMPERATURE_LIMIT_ ON/OFF *	0x800E	temperature limitation activation for the temperature sensor connected to the driver
TEMPERATURE_ THRESHOLD_LOW *	0x800F	lower temperature value for which the temperature limitation is being activated
TEMPERATURE_ THRESHOLD_HIGH *	0x8010	upper temperature value for which the temperature limitation is active, i.e. the cut-off temperature for exits from the driver
BALANCE_RED * / BALANCE_CH1 *	0x8011	value of control level of red channel balance
BALANCE_GREEN * / BALANCE_CH2 *	0x8012	value of control level of green channel balance

Parameter name	PiD	Description
BALANCE_BLUE * / BALANCE_CH3 *	0x8013	value of control level of blue channel balance
SMOOTH_DIS_0/P2P_1/ TIM_2 * / SMOOTH_OFF/1/2/3/4 *	0x801A	selection of the Smooth function option
SMOOTH_TIME * / **	0x801B	Smooth time for <i>tiN</i> function chosen in subsection above
NO_SIG_P1-18 SC_19 ON_20  OFF_21 HLD_22 * / NOS_P0-17/SC/ON/OFF/HLD *	0x801C	choice of work mode for No DMX signal
SCENE_RED * / SCENE_CH1 *	0x801D	settings of red channel value for scene saved in PX745
SCENE_GREEN * / SCENE_CH2 *	0x801E	settings of green channel value for scene saved in PX745
SCENE_BLUE * / SCENE_CH3 *	0x801F	settings of blue channel value for scene saved in PX745
SCREENSAVER_ON/OFF * / **	0x8022	settings of screensaver
SCREENSAVER_ENABLE *	0x8024	settings of screensaver
PROGRAM_SPEED *	0x8025	programs playback speed settings (playing next steps of program)
PROGRAM_FADE *	0x8026	settings of smooth transition between following steps of a program
BALANCE ON/OFF * / BALANCE_ENABLE *	0x8027	to activate or deactivate the balance of output channels
PWM_FREQENCY *	0x8028	LEDs refresh frequency
SERIAL_NUMBER *	0x8030	device serial number

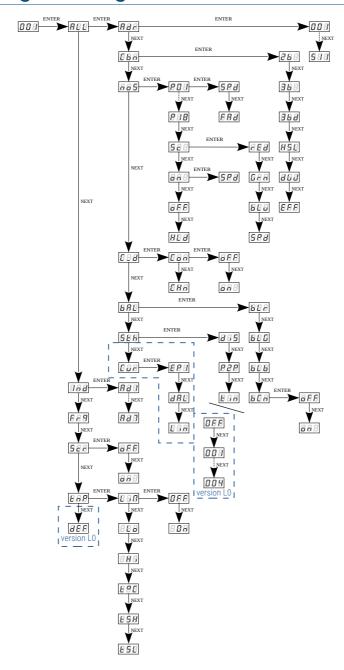
Parameter name	PiD	Description
DISPLAY_FLIP **	0x8031	inverting the meter display 180 degrees
CURVE_EP DALI LIN *	0x8049	setting the control curve

<sup>\* -</sup> editable parameter

**NOTE!** The parameter names appearing in the L0 version are displayed in blue.

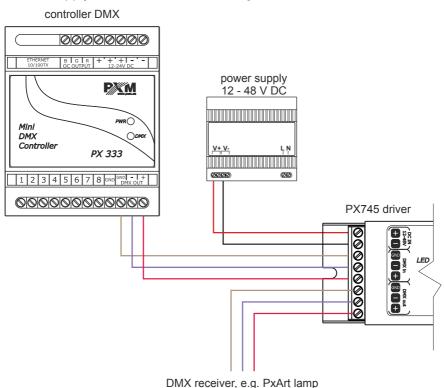
<sup>\*\* -</sup> not available in L0 version

# 9 Programming



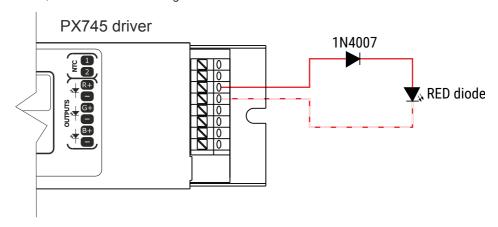
## 10 Connection scheme

#### Power supply and DMX connection diagram

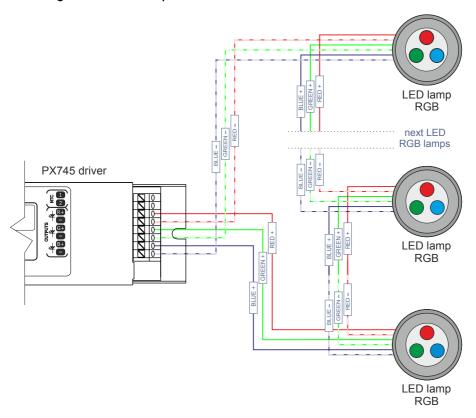


Connection of lamps powered by 350mA							
Driver LED	Power supply	Number of LEDs on one channel					
	12V	1* - 3					
PX745	24V	4 - 6					
	48V	7 – 12					

<sup>\* -</sup> when connecting one red LED, connect a rectifier diode (e.g. 1N4007) to the circuit, as shown in the diagram below:



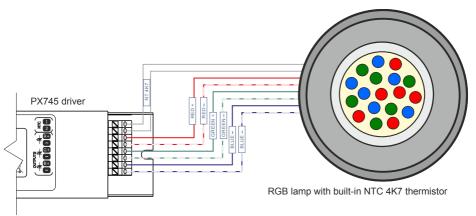
#### Diagram of RGB lamp connection



#### Example connection the PX745 driver to the LED RGB lamp:

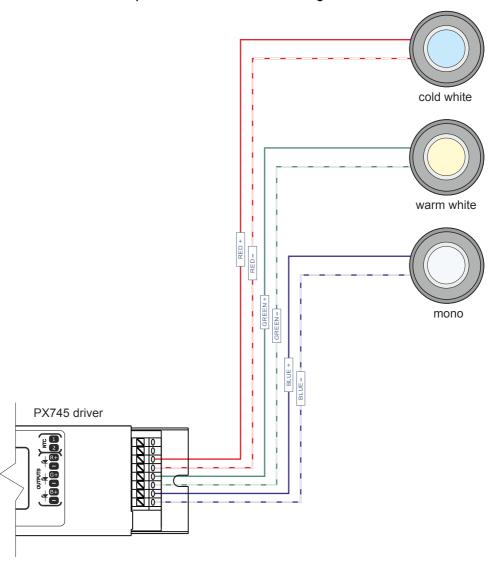
- the cables should be connected with the correct order of colors
- LEDs should be connected only in series
- controlled LEDs can be connected using two conductors only, i.e. two per channel
- the number of serially connected LEDs depends on the driver and supply voltage

# Connection diagram of the RGB lamp with a built-in temperature sensor (NTC 4K7 thermistor)

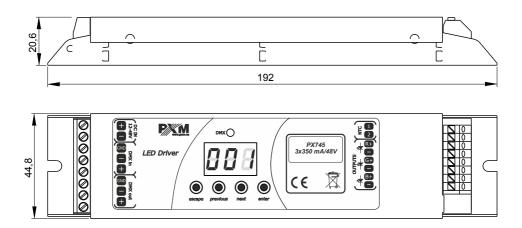


The connection of the NTC 4K7 thermistor is applicable only when one lamp is connected to the driver. This is due to the fact that the device can read the temperature from only one lamp.

## Monochrome lamp in DW mode connection diagram



# 11 Dimensions



# 12 Technical data

type	PX745 PX745-L0
DMX input	1 (512 channels)
DMX output	1 (24 – 512 channels)
RDM protocol support	yes
number of current outputs	3
max current consumption	1.1A
no-load power consumption	0.5W
output load capacity	350mA / channel (+2% ÷ -5%)
output sockets	PCB terminal block (wire 0.5 – 1.5mm <sup>2</sup> )
number of programmable scene	1
built-in programs	18
Master / Slave mode	yes
interpolated resolution of output control	16 bit
weight	0.15kg
dimensions	width: 192mm height: 44.8mm depth: 20.6mm



#### DECLARATION OF CONFORMITY

PXM Marek Żupnik spółka komandytowa Podłęże 654, 32-003 Podłęże

we declare that our product:

Product name: Driver LED C.C. 3 x 350mA

Product code: PX745

PX745-L0

meets the requirements of the following standards, as well as harmonised standards:

PN-EN IEC 63000:2019-01 EN IEC 63000:2018 PN-EN 61000-4-2:2011 EN 61000-4-2:2009 PN-EN IEC 61000-6-1:2019-03 EN IEC 61000-6-1:2019 PN-EN 61000-6-3:2008 EN 61000-6-3:2007

and meets the essential requirements of the following directives:

2011/65/UE **DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment Text with EEA relevance.

2014/30/UE **DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL** of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast) Text with EEA relevance.

Marek Żupnik spółka komandytowa 32-003 Podłęże, Podłęże 654 NIP 677-002-54-53

mgr inż. Marek Żupnik.